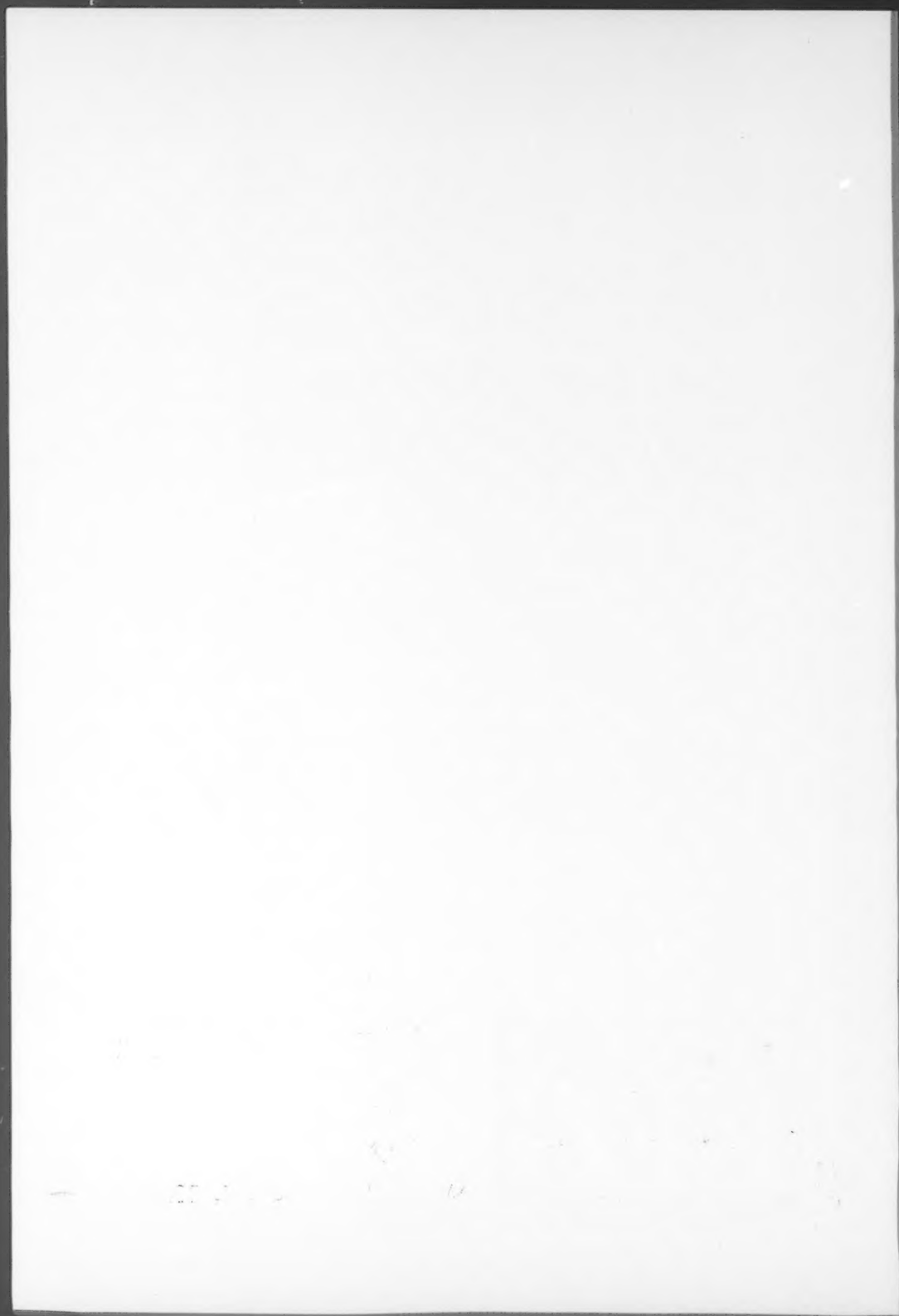


**CLINICAL
EEG**
ELECTROENCEPHALOGRAPHY



**AUTHOR and
SUBJECT INDEX**

VOL. 4, 1973



INDEX OF AUTHORS

Vol. 4, No. 1, 2, 3, and 4, 1973

- ARFEL, G., 16
- BECKA, DOROTHY R., 135
- BLUM, A., 80
- BURNETT, LORING, 135
- BUSSE, EWALD W., 153
- CARNEY, ANDREW L., 168
- CAYAFA, JUAN J., 42
- DUENAS, DANILO, 4
- ELWAN, OSAMAH, 185
- EVERTS, WILLIAM H., 152
- FINLEY, WILLIAM W., 62
- GARDNER-MEDWIN, D., 132
- GIBBS, ERNA L., 89, 127, 140, 206
- GIBBS, FREDERIC A., 53, 89, 105, 140, 150, 206
- GIRKE, W., 80
- HERRERO, F. A., 57
- HOOSHMAND, HOOSHANG, 106
- HUGHES, JOHN R., 42
- ITIL, T. M., 33
- KAMAL, IBRAHAM, 185
- LAURETTE, G., 16
- LEMMI, HELIO, 4
- LORIMER, FRANK M., 117
- MADKOUR, OBSIS, 185
- MOURE, JEAN M. B., 9
- PENRY, J. KIFFIN, 197
- PERRY, RICHARD R., 62
- POSNER, DONALD M., 112
- ROBINSON, BARBARA G., 85
- ROSE, STEPHEN W., 197
- SALETU, B., 33
- SARHADDI, SHAMSEDDIN, 106
- SATO, SUSUMU, 197
- SCHLAGENHAUFF, RHEINHOLD E., 163
- SPENCER, RUTH M., 85
- STRUVE, FREDERICK A., 135
- SUMMITT, ROBERT L., 4
- SYNEK, VLADIMIR, 50
- WEIR, HOMER, 127
- WHITE, BILLY G., 197
- WILROY, JR., R. S., 4
- WOLPOW, EDWARD R., 70



SUBJECT INDEX

Vol. 4, 1973

- Abscess, brain, and focal slowing, 106, 109**
Absence symptoms, and reliability of EEG interpretation, 198, 205
Adolescents and, in EEG technology, 146, 150, 151
Acoustic stimulation and, exceedingly fast activity, 124, 125
 —psychomotor variant, 48
 —somnambulism, 34, 38
 —violent behavior, 124, 125
 (See also Audiometry)
Activation of EEG, (See Acoustic, Olfactory and Photic stimulation, and Sleep)
Adam-Stokes syndrome, and syncope, 172
Adolescents and, fourteen and six, 140, 141, 144
 —mitten patterns, 135-138
 —occipital sharp waves contrasted with lambda waves, 25, 29, 31
Adults and, EEG in gerontology, 152-184
 —fourteen and six, 140-144
 —mitten patterns, 135-138
 —occipital sharp waves contrasted with lambda waves, 25, 29, 31
Adversive seizures, and focal delta activity, 107
Age factor and, aging, 152-184
 —alpha frequency, 155, 156
 —enuresis, 64, 67
 —extreme spindles, 89, 90, 100
 —fourteen and six, 140-144
 —hypoparathyroidism, 12, 13
 —lambda waves, 25, 29, 31
 —mitten patterns, 135-139, 206
 —occipital sharp waves, 25, 29, 31
 —(See also Adolescents, Adults, Children, and Infants)
Aggression, (See Violence)
Alcoholism and, mitten patterns, 207
 —REM sleep, 81
 —somnambulism, 33, 39
Alpha activity and, cerebellar tumor 70-75, 79
 —contraceptive drugs, 186, 187, 190, 191, 194
 —hypoparathyroidism, 9
 —low voltage, 50-52
 —menstruation, 185
 —old age, 155-158, 161, 164, 165
American Medical EEG Association and, annual meeting, 53, 152-184
 —certification of technicians and technologists, 146, 150, 151
 —round table discussion on EEG in gerontology, 152-184
Amnesia, and somnambulism, 33
Amphetamine, induced sleep among children with extreme spindles, 127-131
Amplitude changes and, menstruation, 185, 190
 —old age, 164, 166
 —psychomotor variant discharge, 48
 —sleep prints, 34
 —(See also Asymmetry and Voltage)
Amyotonia congenita, confused with Ehlers-Danlos syndrome, 59
Anemia, and cerebral hypoxia, 168, 169
Aneurysm, and cerebral pathology, 181, 183
Announcements, annual meeting of AMEA, 53
 —certification of technologists and technicians, 146
Anomalies and, extreme spindles, 100
 —Noonan syndrome, 4-8
Anterior temporal localization and, cerebrovascular disease, 164-167
 —electrode placement, 154
 —old age, 159, 164-167
 —spikes, 164-167
 —(See also Temporal localization)
Antiepileptic medication and, blood serum levels, 132-134
 —children EEG findings, 204, 205
 —gas-liquid chromatography, 105, 132
Anxiety, and low voltage EEG, 50
Arousal reaction and, enuresis, 68
 —fast activity in the elderly, 157
 —neuroleptic drugs, 80
 —progesterone administration, 194
 —old age, 157
 —somnambulism, 39
Arterial stenosis, and stroke, 173, 178, 182-184
Arteriosclerosis and, EEG changes in old age, 155, 163, 170, 171
Artifact, and problems in EEG interpretation, 200, 203
Astrocytoma, cerebellopontine angle and asymmetry, 75
Asymmetry and, cerebellar tumor, 75, 79
 —cerebrovascular disease, 166
 —contraceptive drugs, 186, 190, 194, 195
 —enuresis
 —photic driving, 113
 —old age, 155, 160, 166
Asymptomatic persons, (See Control subjects)
Ataxia and, cerebellar tumor, 70, 72
 —Ehlers-Danlos syndrome, 57
 —extreme spindles, 96
Athetosis, and extreme spindles, 96
Audiometry, and electrode skin lesions, 85-88
 —(See also Acoustic stimulation)
Automatic sleep stage classification, in drug treatment and somnambulism, 33-41
Automatism and, exceedingly fast activity, 124
 —psychomotor variant, 49
 —somnambulism, 39
Awake EEG and, adults low voltage, 50-52
 —extreme spindles, 96, 100, 127
 —lambda waves, 16-32
B.D.H., serial, and EEG changes with steroid contraceptives, 186, 188, 192, 194, 195
Behavior disorder and cerebrovascular disorder, 182
 —children's EEG, 202, 203
 —enuresis, 39, 62-69
 —epilepsy,
 —extreme spindles, 98
 —fourteen and six, 140, 141, 144

- old age, 154
- prisoners, 117-126
- Benzedrine**, (See Amphetamine)
- Bentonite** paste and skin lesions, 85, 87
- Beta activity** and, cerebellar recordings, 75
 - hypoparathyroidism, 9
 - infantile hemiplegia, 108
 - low voltage, 51, 52
 - old age, 155-158, 164, 165
 - somnambulism, 35
 - (See also Fast activity)
- Biogenic amines**, and REM sleep, 83
- Biological** process, and primary aging, 153
- Birth injury**, and extreme spindles, 99
- Blackouts** and, exceedingly fast activity, 124
 - psychomotor variant, 49
 - (See also, Seizures and Syncope)
- Blindness**, and cerebrovascular disease, 178
- Blood flow**, cerebral, and old age, 155, 156, 160, 161, 168-184
- Blood serum levels**, and anticonvulsant drugs, 132-134
- Bradycardia**, and sleep, 183
- Brain dysfunction**, minimal, and reliability of EEG interpretation, 197, 198, 201, 202, 204, 205
- Brain scan**, comparative technique, 105
- Breath holding spells**, and EEG in children, 201
- Bruit**, and cerebrovascular disease, 170, 171, 174, 179
- Calcium**, chloride and electrode skin lesions, 53, 85-88
 - serum, and hypoparathyroidism, 9, 10, 14
- Carcinoma** and, cerebellar tumor, 71
 - mitten pattern, 206
 - thyroid disorder, 9-15
- Cardiac**, surgery, and cardio-vascular monitoring, 168, 183, 184
 - (See also Heart)
- Carotid artery disease**, in the elderly, 160, 161, 169-171, 174, 175, 178-184
- Carpal tunnel syndrome**, and vascular surgery, 183, 184
- Carpopedal spasms**, and hypoparathyroidism, 10
- Carbamazepine**, serum levels in epilepsy, 132
- Central localization**, and cerebrovascular accident, 166
 - (See also Parietal)
- Cerebellar tumor** and, mitten patterns, 206, 208
 - scalp EEG abnormality, 70-79
- Cerebral lesions**, and persistent focal delta activity, 106-111
 - (See also Cerebrovascular disease and Tumor)
- Cerebral palsy**, and extreme spindles, 89, 96, 97, 100
- Cerebrovascular disease** and, antifertility drugs, 195
 - elderly persons, 155, 156, 160, 161, 163, 165-184
 - focal delta activity, 106-110
 - low voltage EEG, 50
- Certification**, in EEG technology, 146, 150, 151
- Children** and, enuresis nocturna, 62-69
 - extreme spindles, 89-100, 127-131
 - fourteen and six, 140, 141, 144
 - mitten patterns, 135-138
 - occipital sharp waves contrasted with lambda waves, 25, 29, 31
 - visual assessment of EEG 197-205
- Chloral hydrate sedation**, and extreme spindles, 96
- Cholesterol**, and cerebral vascular disease, 170
- Chvostek's sign**, and hypoparathyroidism, 10, 12
- Clozapine**, and REM sleep, 80-84
- Cognitive deficits**, and arteriosclerosis, 163, (See also Memory)
- Computer analysis** and, drug treatment of somnambulism, 33-41
 - longitudinal studies of aging, 154
 - low voltage EEG, 50-52
- Concussion**, post-syndrome, and low voltage EEG, 50
- Confusion**, episodic, and cerebral vascular disease, 170, 179
- Contraceptives**, steroid, and EEG changes, 185-196
- Control subjects** and, aging, 154-156, 158, 160, 161
 - children in third grade, 197-205
 - extreme spindles, 89
 - fourteen and six, 140, 144
 - low voltage activity, 50-52
 - mitten patterns, 135, 206
 - photic driving with geometric patterns, 112-116
 - temporal lobe EEG changes, 158, 161
- Convulsions** and, antisocial behavior, 117, 118
 - febrile, EEG interpretation reliability, 197, 198, 201-205
 - serum levels of drugs, 132-134
 - (See also Grand mal and Seizures)
- Corpus callosum tumor**, and mitten patterns, 206, 208
- Craniostenosis**, and extreme spindles, 100
- Criminals**, EEG study, 117-126
- Crying spells**, and fourteen and six, 140, 142, 143
- Current**, electric, and electrode skin lesions, 85, 87, 88
- Cyclophosphamide**, and cerebellar tumor, 72
- Cyst**, and focal delta activity, 106-110
- Death**, EEG and aging, 153
- Deformities** and, Ehlers-Danlos syndrome, 57
 - extreme spindles, 100
 - Noonan syndrome, 4-8
- Degenerative disease** and, diagnosis differentiated from drug intoxication, 133
 - Ehlers-Danlos syndrome, 57
 - slowing in old age, 154, 155, 160
- Deladroxate**, and EEG changes with steroid contraceptives, 186, 189, 193-195
- Delta activity** and, aging, 155, 159, 160, 163, 165-167
 - cerebellar tumor, 70, 73, 75
 - cerebral lesions, non-progressive, 106-111
 - enuresis, 68
 - Noonan syndrome, 5
 - somnambulism, 39
 - vascular disease, 163, 165-167
 - (See also Slow activity)
- Depression** and, fourteen and six, 140
 - somnambulism, 35, 38
- Deterioration** and, senescence, 154
 - slowing, 160
 - (See also Degenerative disease)
- Dexamethasone**, treatment of cerebellar tumor, 71

- Diabetes** and, cerebrovascular disease, 166, 174
- Diazepam**, treatment of somnambulism, 33-40
- effect on REM sleep, 83
- Diencephalon**, and sleep, 127
- Diffuse seizure discharge**, nonspecific, and extreme spindles, 98-100
- Digital computer period analysis**, in drug treatment and somnambulism, 33-41
- (See also Computer analysis)
- Diphenylhydantoin**, treatment of somnambulism, 33-40
- Dizziness** and, cerebrovascular disease, 179
- fourteen and six, 141-143
 - psychomotor variant, 49
 - temporal lobe ischemia, 163
- Dominance**, cerebral, and EEG in children, 202
- Doppler flow meter**, and cerebral vascular disease, 169, 170, 173-175, 178-184
- Dream activity**, (See REM sleep)
- Drowsiness** and, low voltage EEG, 51, 52
- paroxysmal slowing in children, 200, 203
 - psychomotor variant, 42, 46, 47, 49
 - temporal slowing in elderly, 159, 160
- Drugs** and, cerebellar tumor treatment, 71, 72
- extreme spindles, 95, 96, 127-131
 - REM sleep, 80-84
 - serum levels in epilepsy, 132-134
 - somnambulism treatment, 33-41
 - steroid contraceptives, EEG changes, 185-196
 - (See also Alcoholism, Amphetamine, B.D.H., Carbamazepine, Chloral hydrate, Clozapine, Cyclophosphamide, Deladroxate, Dexamethasone, Diazepam, Diphenylhydantoin, Ethosuximide, Flurazepam, Hydroxyphenytoin, Isoniazide, Lydiol, Lynestrenol, Mogadon, Ovrul, Ovulen, Phenobarbital, Phenobarbitone, Phenyethyl-malonamide, Phenytoin, Primidone, Reserpin, Seconal, Sulthiame, Trimethadione, Volidan, and W.1854)
- Dysphasia**, and cerebral vascular disease, 170, 179
- Echo-encephalography**, comparative techniques, 105
- Ehlers-Danlos syndrome**, 57-61
- Electrodes** and, placement of anterior temporal, 154
- skin lesions, 53, 85-88
- Embolism** and, cerebrovascular disease, 169, 170, 178, 182, 184
- Emotional disturbance** and, enuresis, 39, 67-69
- fourteen and six, 140, 141, 144
 - (See also Behavior disorder and Violence)
- Encephalitis** and, exceedingly fast activity, 124
- low voltage EEG, 50
- Endocrinopathy**, and low voltage EEG, 50
- Enuresis** and, children with psychiatric disorders, 62-69
- drug treatment with sleep prints, 33-41
 - interpretation of EEG, 202
- Epilepsy** and anticonvulsant drugs serum level, 132-134
- behavior disorder, 117-120, 124, 125
 - cerebrovascular disease, 167
 - diagnosis with EEG, 197, 198, 201, 203-205
 - Ehlers-Danlos syndrome, 57
 - enuresis, 62-64, 67, 68
 - extreme spindles, 96-100
 - fourteen and six, 141, 144
 - mitten patterns, 206, 207
 - occipital sharp waves, 31
 - psychomotor variant, 42-49
 - somnambulism, 39, 40
 - (See also Seizures)
- Estrogenic drugs**, and EEG changes, 185-196
- Ethosuximide**, serum levels in epilepsy, 132
- Exceedingly fast activity**, and criminals, 119-121, 124, 125
- Extreme spindles** and, amphetamine induced sleep, 127-131
- clinical correlates, 89-100
- Eye findings**, (See Photic stimulation and Visual disturbances)
- Familial disorder**, (See Heredity)
- Fast activity** and, aging, 155-158, 161
- contraceptive drugs, 186, 187, 194, 195
 - children in third grade, 200, 205
 - criminals, 119-121, 124, 125
 - extreme spindles, 90-92, 98, 100, 128
 - hypoparathyroidism, 9-15
- Febrile convulsions** and, EEG interpretation reliability, 197, 198, 201-205
- serum levels of drugs, 133
- Females** and, EEG differences in children, 204, 205
- the elderly, 155, 157, 158, 160, 161
 - following steroid contraceptives, 185-196
- Fertility**, anti-, drugs and EEG changes, 185-196
- Floating sensation**, and psychomotor variant, 43, 44, 49
- Flurazepam**, treatment of somnambulism, 33-40
- Focal delta activity**, and non-progressive cerebral lesions, 106-111
- (See also Delta activity and Slow activity)
- Focal seizures**, and focal delta activity, 107
- Focus**, See Anterior temporal, Central, Frontal, Hemisphere, Mid-temporal, Occipital, Parietal, and Temporal localization)
- Fourteen and six per second positive spikes** and, clinical significance in patients over 29 years of age, 140-144
- extreme spindles, 98, 99
- Frequency in EEG** and, aging, 155-158
- low voltage in normal adults, 50-52
 - (See also Alpha activity)
- Frontal localization** and, cerebral vascular accident, 166
- enuresis, 66
 - mittens with tumor, 206, 207
 - old age, 164-166
 - spikes, 66
- Gamma activity**, and aging, 157, 158
- (See also Fast activity)
- Gas-liquid chromatograph**, and serum levels of anticonvulsants, 105, 132
- Gerontology**, and EEG, 152-184
- Grand mal seizures** and, Ehlers-Danlos syndrome, 57
- local delta activity, 107
 - Noonon syndrome, 5, 7, 8
 - (See also Convulsions and Seizures)
- Headache** and, cerebellar tumor, 72
- cerebrovascular disease, 174
 - exceedingly fast activity, 124
 - fourteen and six, 140-143
 - psychomotor variant, 43, 4, 49
- Head injury** and, focal delta activity, 106-110
- fourteen and six, 140, 144

- interpretation of EEG, 202
- low voltage EEG, 50
- personality disorder, 124
- Hearing**, (See Acoustic stimulation and Audiometry)
- Heart disease** and, cerebrovascular disease in elderly, 156, 168, 171, 172, 182-184
- Hemangioblastoma**, of cerebellum, 75
- Hemiparesis** and, cerebrovascular disease, 172, 179, 181
 - focal delta in non-progressive cerebral lesions, 106-109
- Hemiplegia** and, cerebrovascular disease, 169, 170, 172, 179
 - extreme spindles, 96
 - focal delta activity, 106-108
- Hemisphere localization** and, cerebrovascular disease, 166
 - cyst, 107
 - trauma, 107, 109
- Hepatic disease**, seizures and anticonvulsants, 132, 133
- Heredity** and aging, 153
 - epilepsy in children, 201, 202
 - Mongoloids with extreme spindles, 99, 100
 - Noonan syndrome, 4-8
 - phenylketonuria, 89
 - somnambulism, 39
- Hippocampus**, degeneration, and temporal slowing in elderly, 160
- Holter Cardiac Monitor**, and cardiac disease, 172, 173, 184
- Hormonal changes**, in women, and fast activity, 158
- Humps**, sleep and occipital sharp waves, 25
- Hydrocephalus**, and extreme spindles, 100
- Hydroxyphenytoin**, serum levels epilepsy, 132, 133
- Hyperactivity**, and EEG in third grade children, 202
- Hyperbaric treatment**, and arteriosclerosis and EEG changes, 163, 164
- Hypertension** and, cerebrovascular disease, 166, 170
 - EEG frequency, 156
- Hyperventilation** and, EEG changes with contraceptive drugs, 186
 - EEG interpretation in children, 203
 - Ehlers-Danlos syndrome, 58
 - temporal slowing with psychomotor variant, 46, 49
 - temporal slowing in old age, 160
- Hypnotism**, and somnambulism, 39
- Hypoparathyroidism**, secondary, EEG findings, 9-15
- Hypothalamus**, and progesterone administration, 194
- Hypotonia**, and Noonan syndrome, 5, 8
- Hypoxia**, and slow waves in elderly, 160, 164
- Ictal pattern**, psychomotor variant, 42-49
- Infants**, and extreme spindles, 89, 90, 100
- Infarction**, in elderly, 165, 169
- Infectious disease** and, extreme spindles, 99, 100
 - focal delta activity, 106, 107, 109
 - (See also Convulsions, febrile, and Encephalitis)
- Intellectual performance**, and EEG in elderly people, 154-160, 181
- Interpretation**, EEG, reliability in third grade children, 197-205
- Intoxication**, drug, and serum levels in epilepsy, 132, 133
- Irritability**, and fourteen and six, 140
- Ischemia**, cerebral, in the elderly, 160, 163, 169, 170, 173, 178, 181, 184
- Isoniazide**, serum levels in epilepsy, 132
- Lambda waves**, contrasted with occipital sharp waves of sleep, 16-32
- Laterality of EEG abnormality**, in the elderly, 158-160, 163, 164, 166, 167
- Laughing spells**, and fourteen and six, 140
- Lesions**, cerebral non-progressive and focal arrhythmic delta activity, 106-111
 - (See also Tumor and Cerebrovascular)
- Life expectancy**, and EEG in elderly, 161
- Light-flash stimulus**, and psychomotor variant, 42-49
 - (See also Photoc stimulation)
- Lydiol**, and EEG changes with steroid contraceptives, 186, 194, 195
- Lynestrenol**, and EEG changes with steroid contraceptives, 186, 190, 194, 195
- Macrocephaly**, and extreme spindles, 100
- Males**, and EEG changes in the elderly, 155, 158, 160, 161
- Memory impairment** and, fourteen and six, 141
 - the elderly, 155, 181
- Menstruation**, and EEG changes, 158, 185
- Mental retardation** and, extreme spindles, 89, 95-100, 127
 - Noonan syndrome, 4-8
- Metabolism** and, anticonvulsants, 132, 133
 - EEG frequency in elderly persons, 155, 156
- Metastasis**, (See Carcinoma)
- Microcephaly**, and extreme spindles, 100
- Mid-brain**, tumor and mitten patterns, 206, 208
- Mid-temporal localization** and, old age, 159, 164-167
 - psychomotor variant, 42-49
 - spikes, 164-167
 - vascular disease, 164-167
- Mitten patterns** and, age distribution, 135-139
 - brain tumor sites, 206-208
 - criminals, 119, 120
- Mogadon**, and REM sleep, 83
- Mongoloids**, and extreme spindles, 99, 100
- Multiple spike foci**, and extreme spindles, 98-100
- Muscle atrophy**, and Ehlers-Danlos syndrome, 60
- Nacrolepsy**, and EEG in children, 201
- Nausea**, and fourteen and six, 140, 141
- Neurofibromatosis**, and Ehlers-Danlos syndrome, 60
- Neurosis** and, enuresis, 63, 65-67, 69
 - REM sleep, 80, 83
 - somnambulism, 39
- Noonan syndrome**, EEG findings, 4-8
- Noradrenalin**, and sleep phases, 83
- Normal EEG** and, aging, 155, 157, 160-163, 165
 - cerebellar tumor, 70, 79
 - cerebrovascular disease, 163, 165, 170
 - children in third grade, 200-202, 205
 - Ehlers-Danlos syndrome, 59
 - anuresis, 62, 64-67
 - fourteen and six symptoms, 141, 144
 - hypoparathyroidism, 10-13
 - Noonan syndrome, 5
 - photoc driving with geometric pattern, 112-116
 - prisoners, 119-121
 - somnambulism, 35, 37, 39, 40
 - tumor, 70, 79

Normal subjects, (See Control subjects)**Occipital localization and attenuation with cerebellar tumor, 79**

- cerebrovascular accident, 166
- enuresis, 66, 67, 69
- frequency in elderly persons, 155, 156
- Noonan syndrome, 6, 7
- sharp waves contrasted with lambda waves, 16-32
- (See also Alpha activity)

Oculomotor activity, and lambda waves

- contrasted with occipital sharp waves, 16, 23, 24, 25, 30, 31

Olfactory stimulation and, exceedingly fast activity with violent behavior, 124, 125**Organic brain disease, and EEG in the elderly, 156, 157****Overbreathing, and temporal slowing in the elderly, 160**

- (See Iso Hyperventilation)

Ovaral, and EEG changes with steroid contraceptives, 186, 191, 194, 195**Ovulation, and EEG changes, 185**

- (See Iso Contraceptives)

Ovulen, and EEG changes with steroid contraceptives, 186, 194, 195**Oxygen and, EEG frequency, 156**

- hyperbaric treatment of arterosclerosis and senility, 163
- hypoxemia in cerebrovascular disease, 168, 169, 182

Pacemaker implantation, and arrhythmia, 183, 184**Pain, and fourteen and six, 141, 143****Paradoxical sleep, (See REM sleep)****Paraplegia, and extreme spindles, 96****Paresthesia and, fourteen and six, 141**

- hypoparathyroidism, 10
- vascular disease, 170

Parietal localization and, cerebrovascular accident, 166

- enuresis, 66
- focal delta with non-progressive cerebral lesions, 107
- spikes, 66

Personality disorder, (See Behavior disorder, Psychiatric disorder, and Psychosis)**Petit mal seizures, (See Absence symptoms)****Phenobarbital, treatment of somnambulism, 33-40****Phenobarbitone, serum levels in epilepsy, 132, 133****Phenyethyl-malonamide, serum levels in epilepsy, 132, 13****Phenylketonuria, and extreme spindles, 89****Phenytoin, serum levels in epilepsy, 132, 133****Photoc stimulation and, children's EEG, 204**

- Ehlers-Danlos syndrome, 58, 59
- exceedingly fast activity, 124, 125
- geometric pattern effect, 112-116
- hypoparathyroidism, 14
- low voltage EEG, 52
- old age, 164
- tumor, 75
- violent behavior, 134, 125

Pituitary tumor, and mitten patterns, 206, 208**Pointes posterieures medianes, (See Occipital sharp waves of sleep)****Polyspikes, among third grade children, 200, 202****Pons tumor, and mitten patterns, 206, 208****Ponto-geniculo-occipital sharp waves, and****occipital sharp waves, 30, 31****Porencephalic cyst, and focal delta activity, 106-110****Positive waves, (eSe Fourteen and six, and Occipital, sharp waves)****Posterior fossa, tumor and EEG abnormality, 70-79****Primidone, serum levels in epilepsy, 132, 133****Prisoners, six year EEG study, 117-126****Progestogen, and EEG changes, 185-196****Psychiatric disorder and, children with enuresis, 62-69****Psychological status, and EEG in the elderly, 154, 159, 163****Psychomotor epilepsy, and psychomotor variant pattern, 42****Psychomotor variant discharge, and ictal symptoms, 42-49****Psychosis and mitten**

- patterns, 135, 137-139, 206, 207

Psychotropic drugs, treatment and somnambulism, 33-41**Pulmonary insufficiency, and cerebrovascular disease, 169, 178****Quadriplegia and, extreme spindles, 96**

- Noonan syndrome, 5-8

Questionable epilepsy, and fourteen and six, 140, 141**Questionnaire, and EEG interpretation in third grade Children, 197, 199, 203, 205****Race, and alpha frequency, 155****Radio-telemetry, recordings of occipital sharp waves, 16-32****Rage and, exceedingly fast activity, 124**

- fourteen and six, 140

Reading difficulty, and EEG in third grade children, 202**REM sleep and, alpha activity, 51**

- new antipsychotic compound, 80-84
- occipital sharp waves, 29-31
- somnambulism, 33-38

Reserpin, and REM sleep, 83**Reticular activating system and, enuresis, 68**

- extreme spindles, 89, 127
- sleep regulation, 80, 83

RHO waves, (See Occipital sharp waves)**Rolandic sharp waves, (See Humps)****Saw-tooth waves, and ocular movements in sleep, 30****Schizophrenia, and mitten**

- patterns, 135, 138, 139, 206, 207

Second sedation, and extreme spindles, 95**Sedation and, exceedingly fast activity, 124**

- extreme spindles, 95

Seizures and, absence, 198, 205

- adversive, 107

- anticonvulsants, serum levels, 132-134

- behavior disorder, 117-120, 124, 125

- cerebrovascular disease, 166, 167

- diagnosis with EEG, 197-205

- Ehlers-Danlos syndrome, 57

- enuresis, 62-64, 67, 68

- extreme spindles, 96-100

- febrile, 133, 197, 198, 201-205

- focal, 107

- fourteen and six, 141, 144

- grand mal, 5, 7, 8, 57, 107, (See Convulsions)

- hypoparathyroidism, 9, 10, 14

- non-progressive lesions, 106-109

- Noonan syndrome, 5, 7, 8
- occipital sharp waves, 31
- old age, 159, 166, 167
- prisoners, 17, 118
- psychomotor variant, 42-49
- somnambulism, 39, 40
- Senescence** and, alpha slowing, 155
 - primary aging, 153, 154
- Senility** and, hyperoxygenation, 163
 - mitten patterns, 207
 - secondary aging, 154
- Sensory overloading**, and exceedingly fast activity, 124-126
- Serotonin**, and sleep phases, 83
- Serum**, levels of anti-convulsant drugs, 132-134
 - (See also Blood)
- Sex ratio** and, EEG among the elderly, 155
 - enuresis, 67
 - extreme spindles, 95
 - (See also Females and Males)
- Sharp waves** and, aging, 155, 159, 160
 - cerebrovascular accident, 167
 - children in third grade, 200, 203
 - contraceptive drugs, 186, 193-195
 - extreme spindles, 90
 - lambda waves, 16-32
 - Noonan syndrome, 5-7
 - occipital localization, 16-23
 - vertebrobasilar artery insufficiency, 163
- Six per second spike and wave**, and Ehlers-Danlos syndrome, 58, 59
- Skin lesions** and, calcium chloride with electrodes, 53, 85-88
 - Ehlers-Danlos syndrome, 57
- Skull fracture**, and focal delta activity, 196
- Sleep** and, antipsychotic compound, 80-84
 - cerebrovascular accident with temporal spikes, 168
 - extreme spindles, 89-100, 127-131
 - fourteen and six, 141, 144
 - mitten patterns, 137, 206, (See also Mitten patterns)
 - occipital sharp waves, 16-32
 - old age, 156, 157, 165
 - prisoners, 124
 - REM, 29-38, 51, 80-84
- Slow activity** and, aging, 155, 156, 158-168
 - cerebellar tumor, 70, 73, 75
 - children in third grade, 200, 202, 203, 205
 - contraceptive drugs, 186, 188, 189, 191-195
 - Ehler-Danlos syndrome, 58-60
 - enuresis, 66-69
 - extreme spindles, 98
 - hypoparathyroidism, 9-15
 - low voltage EEG, 50-52
 - menstruation, 185
 - nonprogressive cerebral lesions, 106-111
 - Noonan syndrome, 5-7
 - somnambulism, 33, 39
 - vascular insufficiency, 163-168
- Somnambulism**, drug treatment and sleep prints, 33-41
- Spastics** and, extreme spindles, 96
 - Noonan syndrome, 5, 7, 8
- Speech disorder** and, cerebrovascular disease, 170, 179
 - extreme spindles, 96, 98
 - extreme spindles, 96, 98
- Spike-and-wave patterns** and, children's EEG, 200-205
 - diffuse nonspecific, 98-100
 - Ehlers-Danlos syndrome, 58-60
 - enuresis, 66-69
 - extreme spindles, 98-100
 - Noonan syndrome, 5
 - six per second, 58, 59
 - three per second, 59, 201, 202
- Spikes** and, aging, 155, 163-168
 - anterior temporal, 164-167
 - cerebrovascular disease, 166, 167, 168
 - children in third grade, 200, 202, 203
 - Ehlers-Danlos syndrome, 58
 - enuresis, 66, 67
 - extreme spindles, 98-100
 - fourteen and six in adults, 140-144
 - frontal, 66
 - hypoparathyroidism, 9-15
 - mid-temporal, 164-167
 - multiple, 98-100, 200, 202
 - occipital, 66
 - parietal, 66
 - psychomotor variant, 42-49
 - temporal, 14, 66, 67, 163-168
- Spindles**, sleep, and, amphetamine, 127-131
 - extreme amplitude, 89-100, 127-131
 - occipital sharp waves, 25
 - old age, 165
 - somnambulism, 35
- Steroid contraceptives**, and EEG changes, 185-196
- Stroke**, in the elderly, 167-169, 173, 174, 183
 - (See also Cerebrovascular disease)
- Subclavian arteries**, and cerebrovascular disease, 174, 175, 182, 183
- Subdural Hematoma**, and focal delta activity, 106, 109
- Sulthiame**, serum levels in epilepsy, 132, 133
- Sylvian region**, and vascular insufficiency in elderly, 160
- Syncope** and, cerebrovascular disease, 172, 180
 - children in third grade, 201
- Technology**, EEG accreditation, 146, 150, 151
- Temperature**, body, and treatment with W. 1854, 80, 81, 83
- Temporal localization** and, adult controls, 158
 - AV malformation, 107
 - contraceptive drugs, 186, 189, 192-194
 - enuresis, 66, 67
 - hypoparathyroidism, 14
 - Noonan syndrome, 6, 7
 - old age, 158-168
 - psychomotor variant, 42-49
 - seizures, 159
 - spikes, 14, 66, 67, 163-168
 - trauma, 107
 - vascular disease, 160-168
 - (See also Anterior and Mid-temporal)
- Tetany**, and hypoparathyroidism, 9, 12-14
- Thalamus** and, sleep spindles, 127
 - tumor with mitten patterns, 206, 208
- Theta activity** and, aging, 155, 156, 159, 163-166
 - cerebellar tumor, 70, 73, 75
 - contraceptive drugs, 186, 188, 189, 191-195
 - hypoparathyroidism, 12
 - low voltage EEG, 50-52
 - Noonan syndrome, 5

- vascular disease, 163-166
- (See also Slow activity)
- Three per second spike-and-wave** and, children in the third grade, 201, 202
- Ehlers-Danlos syndrome, 59
- Thyroidectomy**, and EEG in hypoparathyroidism, 9-15
- Tilting**, and temporal slowing in the elderly, 160
- Tingling sensation**, and cerebrovascular disease, 170
- (See also Paresthesia)
- Training of EEG, technicians and technologists**, 150, 151
- Trauma**, (See Head injury)
- Trimethadione**, serum levels in epilepsy, 132
- Trousseau's sign**, and hypoparathyroidism, 10, 12
- Tumor** and, cerebellar with EEG abnormality, 70-79
 - cerebrovascular disease, 180, 183
 - focal delta activity, 106-110
 - mitten patterns, 206-208
 - thyroid disorder, 9-15
- Turner syndrome**, and Noonan syndrome, 4
- Ullrich syndrome**, and Noonan syndrome, 4
- Unverricht's syndrome**, EEG abnormality compared to Ehlers-Danlos syndrome, 59
- Urinary incontinence**, (See Enuresis)
- Vascular disease**, (See Cerebrovascular disease)
- Vertigo**, and temporal lobe ischemia, 163
- Violence** and, exceedingly fast activity, 124-126
 - fourteen and six, 140
 - prisoners, 118, 124-126
- Vision** and, cerebrovascular disease, 174, 178, 179
 - extreme spindles, 96, 98
 - lambda waves, 16, 23-25, 30, 31
- Vitamin D**, treatment of hypoparathyroidism, 14
- Volidan**, and EEG changes with steroid contraceptives, 186, 187, 194, 195
- Voltage**, low, and aging, 155, 157
 - normal adults, 50-52
 - vertebrovascular artery insufficiency, 163
 - (See also Tmplitude)
- W. 1854**, and REM sleep, 80-84

